



ST. VINCENT AND THE GRENADINES

ENERGY REPORT CARD (ERC) FOR 2022





INTRODUCTION



This is the Energy Report Card (ERC) for 2022 for St. Vincent and the Grenadines.

The ERC provides an overview of the energy sector performance, highlighting the following areas:

- Installed Conventional and Renewable Power Generation Capacity
- Annual Electricity Generation, from Conventional and Renewable Plants
- Other Electricity Sector Metrics, such as Losses, Consumption, and Tariffs
- Renewable Energy Targets
- Renewable Energy Resource Potential

The ERC also includes sectoral data and information on policies and regulations; workforce; training and capacity building; and related areas.

The data and information that are available in the ERC were mostly provided by the government ministries, agencies, and departments, that have responsibility for statistics and planning, in general, and the energy sector and electricity subsector including the electric utilities, in particular. The data and information collected was supplemented by desk based research and, in instances, information was generated from calculations and analyses that were performed by the CCREEE.

Quality Assurance

The collection and treatment of data and information that is produced for the ERC is consistent with the International Recommendations for Energy Statistics (IRES), which provides a comprehensive methodological framework for the collection, compilation, and dissemination of energy statistics in all countries irrespective of the level of development of their statistical system. The ERC is produced in accordance with these performance standards that seek, as far as is possible, to ensure the quality (i.e., objectivity, utility, and integrity) of data and information that it disseminates to the public.

The CCREEE strives for transparency on the information and methods that are used within the production of the ERC, with a view to improve understanding on how the information should be treated and to facilitate reproducibility of the information. Nevertheless, the Centre recognizes that quality may be limited by the nature and source of the data and information disseminated.

Disclaimer

The ERC includes data and information that is contained in a variety of public sources and, though every effort is made to validate the accuracy and validity of the contents, reliance on the information herein is strictly at the user's risk.

Correction of Errors

If a substantive error is detected after the ERC is disseminated, the CCREEE will make corrections and issue an errata notice, or other notification as appropriate. Also, the information contained within the ERC may be revised, after initial dissemination to reflect more complete information or other significant changes in the underlying data. The ERC may, from time to time, include information that is preliminary and is expected to be revised, or information that is revised from previously disseminated versions. In such instances, those cases are clearly noted.

Requests for Correction

The CCREEE has established administrative mechanisms to allow persons to seek and obtain, *where appropriate*, legitimate correction(s) to information maintained and disseminated through the ERC. Any request for corrections should be sent to: energyreportcard@ccreee.org, under the subject: REQUEST FOR CORRECTION TO ERC 2022 FOR ST. VINCENT AND THE GRENADINES.

Acknowledgements

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ENERGY SECTOR SUMMARY

+ SOCIOECONOMIC POLICIES

National Economic and Social Development Plan 2013-2025 (2013) [5]

National Development Plan/ Overall Country Development Strategy

National Energy Policy (2009) [6]

National Energy Policy

None

Renewable Energy (RE) Policy

+ SOCIOECONOMICS

Population (Projection)	110,872 [1]
GDP (USD)	\$948,559,259 [2]
GDP (USD) Per Capita	\$9,125.30 [2]
Gross National Income (GNI) Per Capita (USD)	\$9,110.00 [3]
Debt as % of GDP	87.77%
Human Development Index	0.751 [4]
RE Target	60% by 2025 [7]



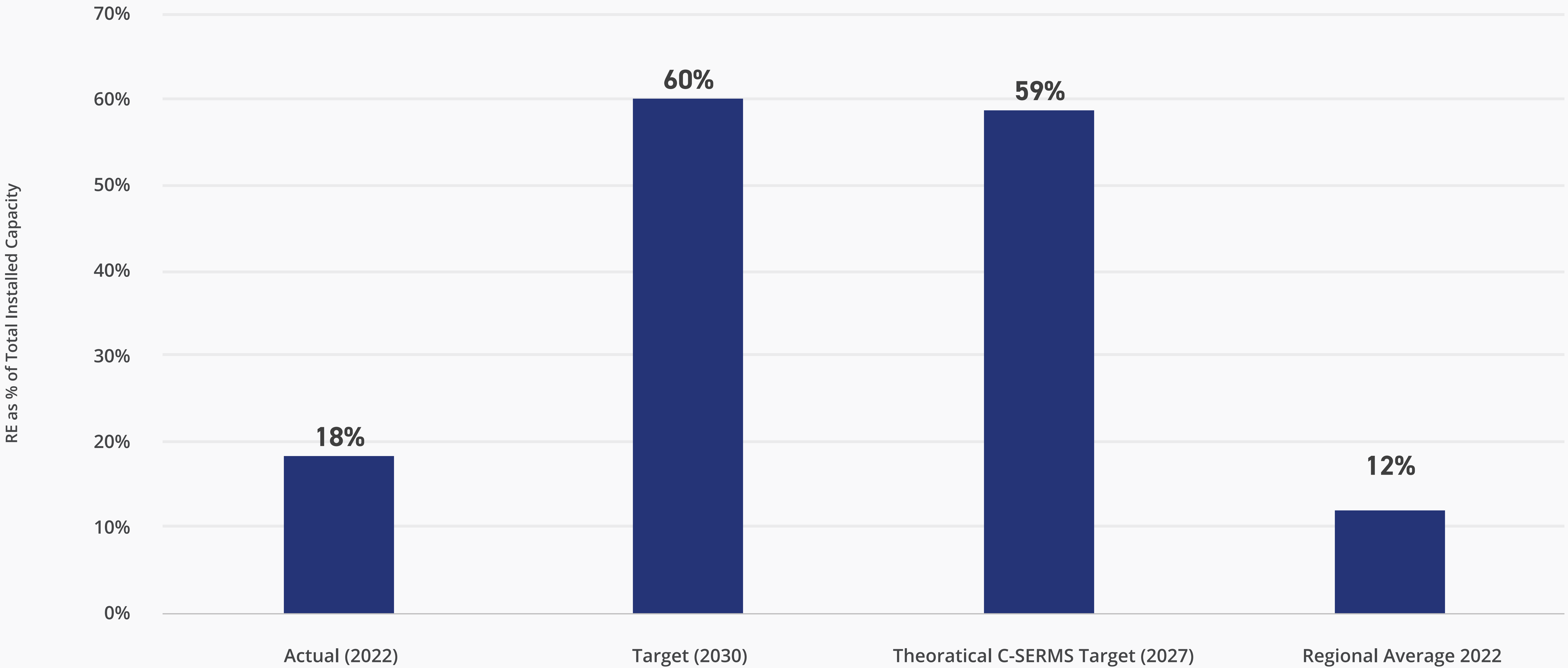
Total Installed Conventional Capacity (MW)	45.60 [10]
Total Installed RE (MW)	9.62 [10]
Electricity System Losses (%)	6.40% [10]
Energy Use (kWh) Per Capita	1279.60
National Repository for Energy Data	SVG Energy Unit [7]

+ OTHER ENERGY SECTOR SUB-POLICIES

Climate Change Policy	National Climate Change Policy of Saint Vincent and the Grenadines (2019) [8]
National Determined Contributions (NDC) [9]	An unconditional, economy-wide reduction in greenhouse gas (GHG) emissions of 22% compared to its business as usual (BAU) scenario by 2025. [9]
Energy Performance Standards/Appliance Labelling	<ul style="list-style-type: none"> • SVGNS 74:2020: Energy Labelling-Refrigerating Appliances Requirements • SVGNS 75:2020: Energy Labelling-Compact Fluorescent Lamps and Light Emitting Diode Lamps-Requirements • SVGNS 76:2020: Energy Labelling- Air- Conditioners- Requirements • SVGNS 77:2020: Standard for Labelling of Refrigerant Containers • SVGNS 92:2023: Sustainable Tourism – Energy Management and Efficiency Requirement

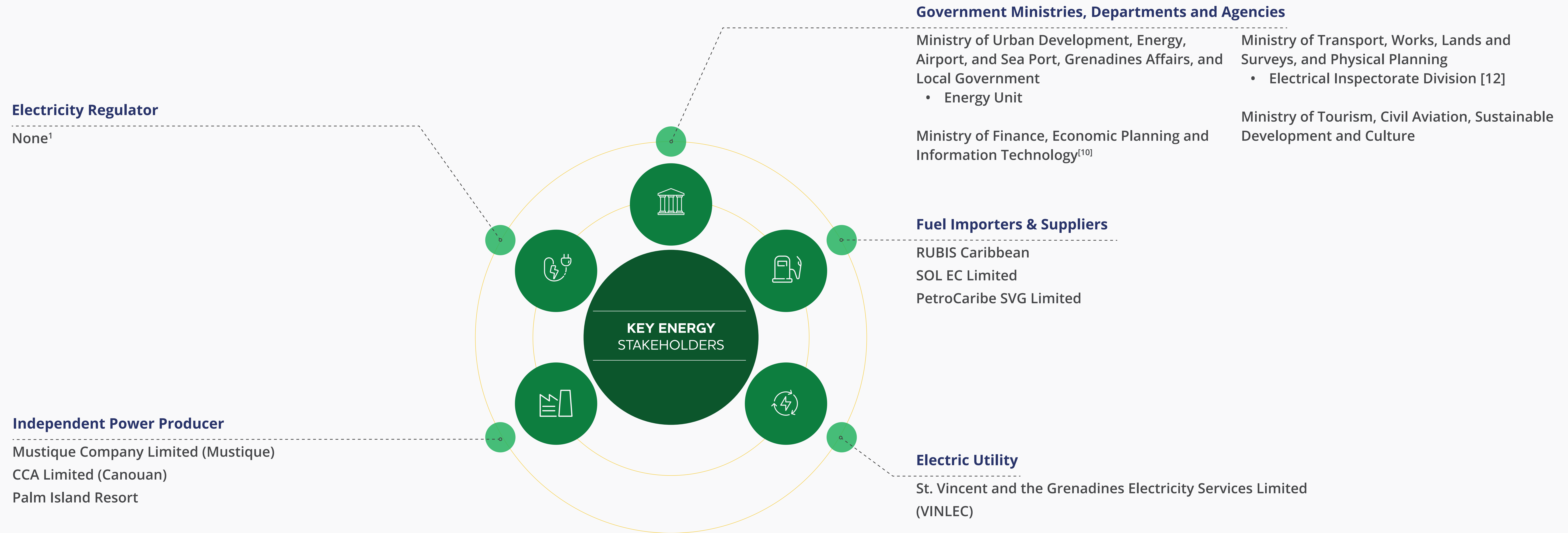


RENEWABLE ENERGY INSTALLED CAPACITY AGAINST TARGETS





KEY ENERGY STAKEHOLDERS



1. Cabinet of the Government of St. Vincent and the Grenadines oversees the utility and VINLEC self-regulates.



POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK



+ POLICIES RELEVANT TO THE ENERGY SECTOR

National Energy Policy [6] ●

2009 The main aims are to strengthen the national economy by reducing the dependence on imported fossil fuels through increased exploitation of indigenous resources and improvement of energy efficiency and conservation of energy use.

Energy Action Plan for St. Vincent and the Grenadines [17] ●

2010 The primary goal of the Energy Action Plan is the incorporation of renewable energy into electricity generation mix in Saint Vincent and the Grenadines to achieve the targets outlined in the National Energy Policy.

National Economic and Social Development Plan 2013-2025 [5] ●

The Plan offers a vision for improving the quality of life for all Vincentians and is anchored in the achievement of the following over-arching goals:

- o High and sustained levels of economic growth
- o Reduced unemployment and poverty levels
- o Improved physical infrastructure and environmental sustainability
- o High levels of human and social development
- o A peaceful, safe, and secure nation
- o A technologically advanced work-force
- o A deep sense of national pride and cultural renaissance
- o Regional integration
- o Enhanced global solidarity

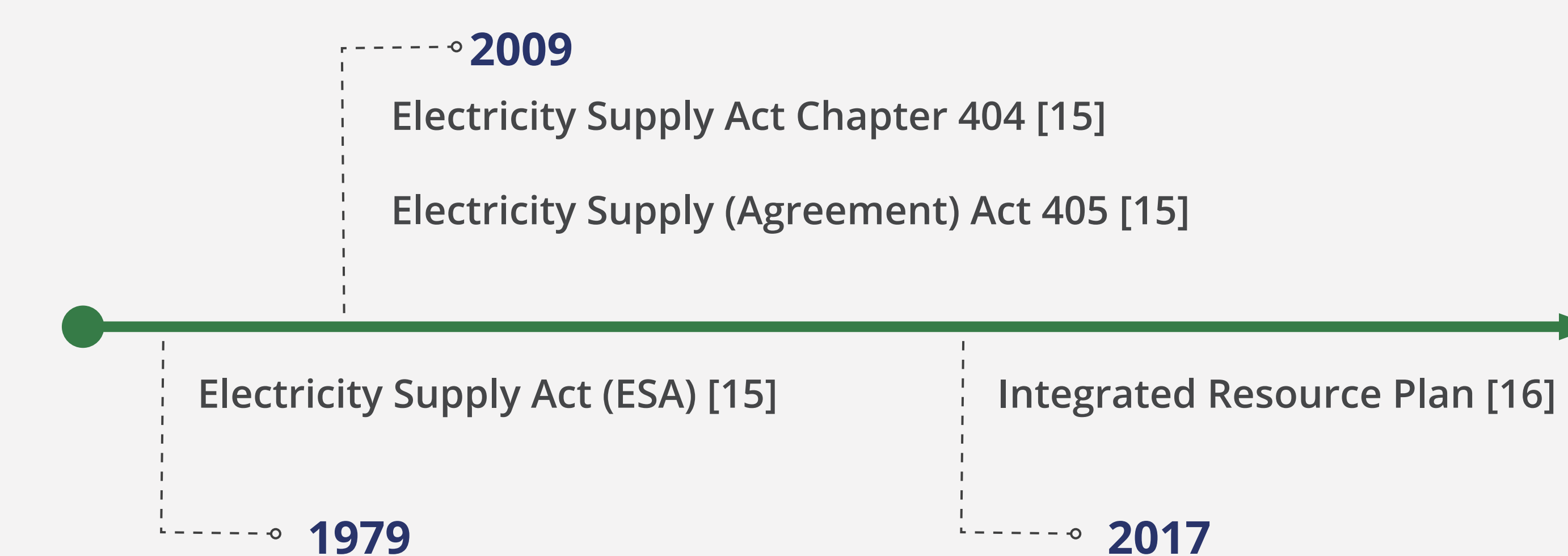
Integrated Resource Plan [16] ●

2017 An IRP was completed by the Government of St Vincent and the Grenadines, through the Energy Unit in collaboration with the Rocky Mountain Institute (RMI), Clinton Climate Initiative and VINLEC in 2017. The results of this project were presented in the St. Vincent and the Grenadines National Electricity Transition Strategy Report.

Electric Vehicle Policy ⁴ [18] ●

	YEAR
Energy Policy and Energy Action Plan [6]: ●	2010
RE Target: ●	2010
EE Target: ●	2010
Electricity Regulator ² :	
Net Billing/Net Metering [13]: ●	2019
Interconnection Policy/Standards [13]: ●	2019
Feed-in-tariff [13]: ●	2019
RE/EE Act ³ [14]: ●	2019

+ KEY ACHIEVEMENTS: PLR FRAMEWORK TIMELINE FOR ELECTRICITY SUB-SECTOR



● IN FORCE ● DRAFT ● UPDATE BEING PREPARED

2. Cabinet of the Government of St. Vincent and the Grenadines and VINLEC self-regulate.
 3. Geothermal Resource Development Act (2015)
 4. Document not available for detailed review.



POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK



POLICIES AND LEGISLATION RELEVANT TO THE TRANSPORTATION SECTOR

Electricity Supply Act Amended 2009 [15] ●

1973 Exemption from Customs Duties and Consumption Tax on the importation of 100% electric vehicle, a plug-in hybrid vehicle or a hybrid vehicle other than a plug-in hybrid vehicle.

Environmental Management Act [19] ●

2009 The Act provides the guidelines for environmental management and establishes the Department of the Environment and the National Environmental Commission.

Geothermal Resources Development Act [14] ●

2015 The Act governs geothermal exploration and formally establishes the National Energy Committee and provides for the development and use of geothermal resources and related matters.

LEGISLATION RELEVANT TO THE FISCAL INCENTIVES:

Customs (Controls and Management) Act (Amended 2007) [20] ●

1999 The Customs Act provides guidelines for operations at the air and seaports.

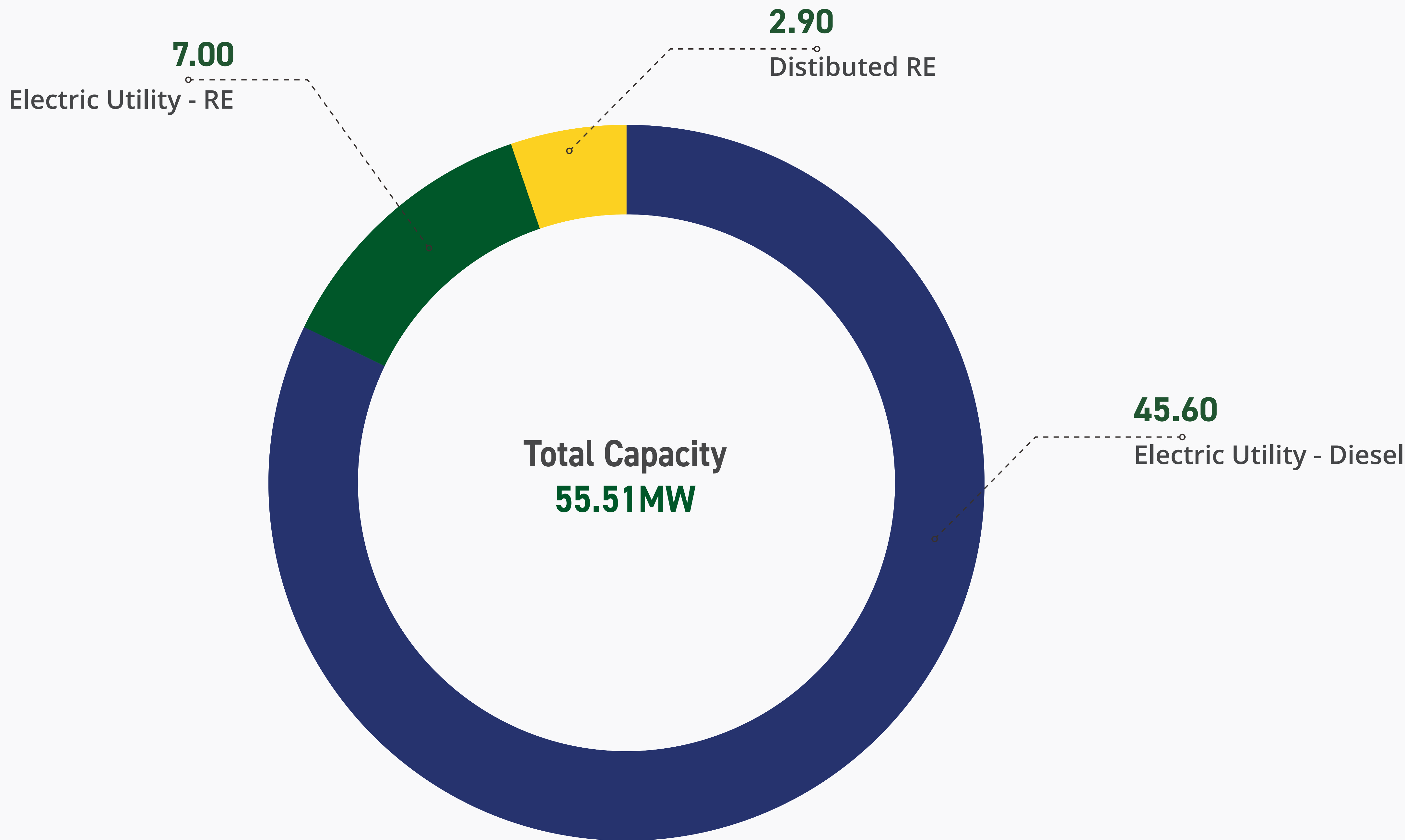
Fiscal Incentives Act [21] ●

1990 The Fiscal Incentives Act grants incentives to a company based on the sale of approved products. The Act also allows for import duty waivers on approved items.

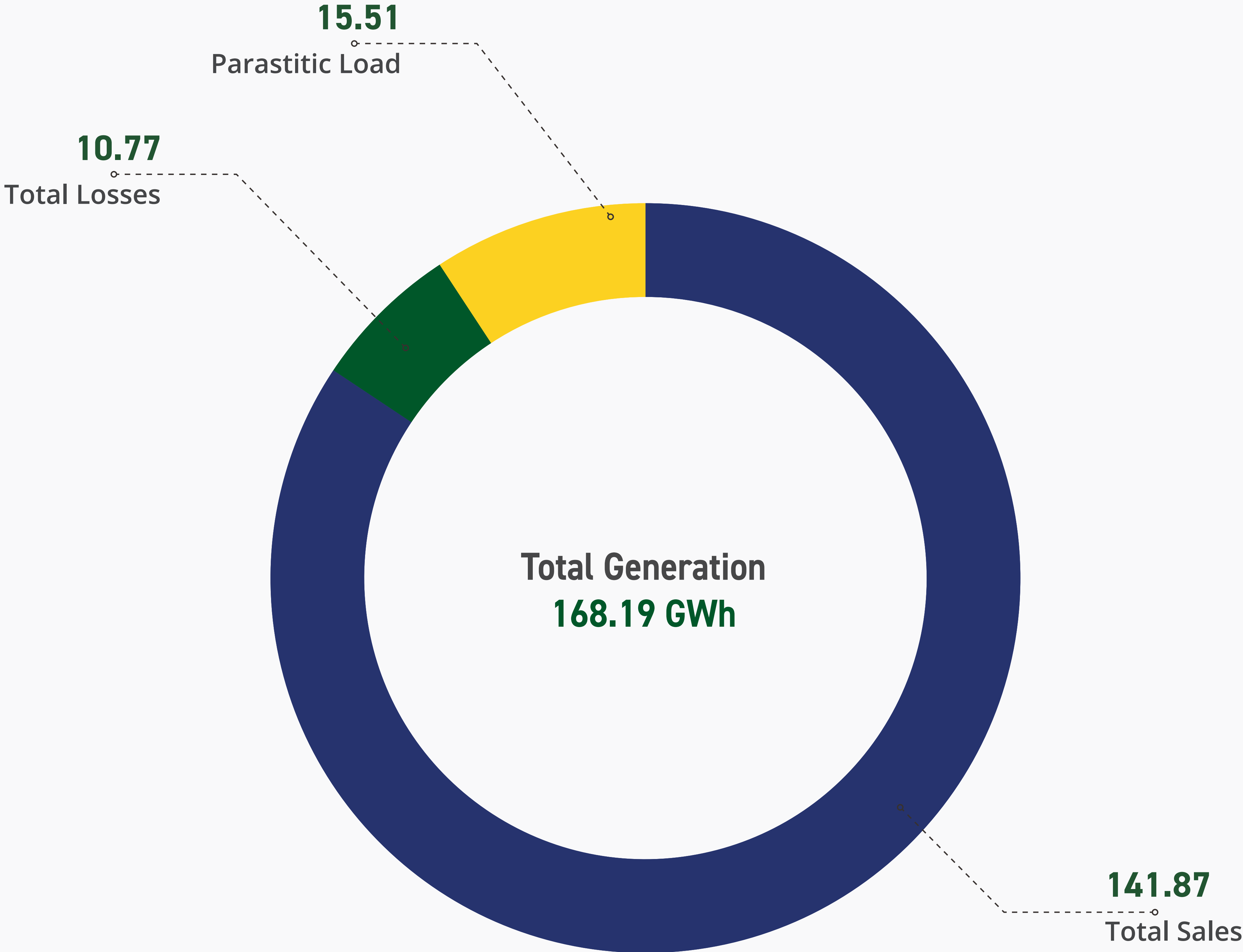


ELECTRICITY & ENERGY EFFICIENCY ⁵ [11] [10]

+ INSTALLED CAPACITY (MW)



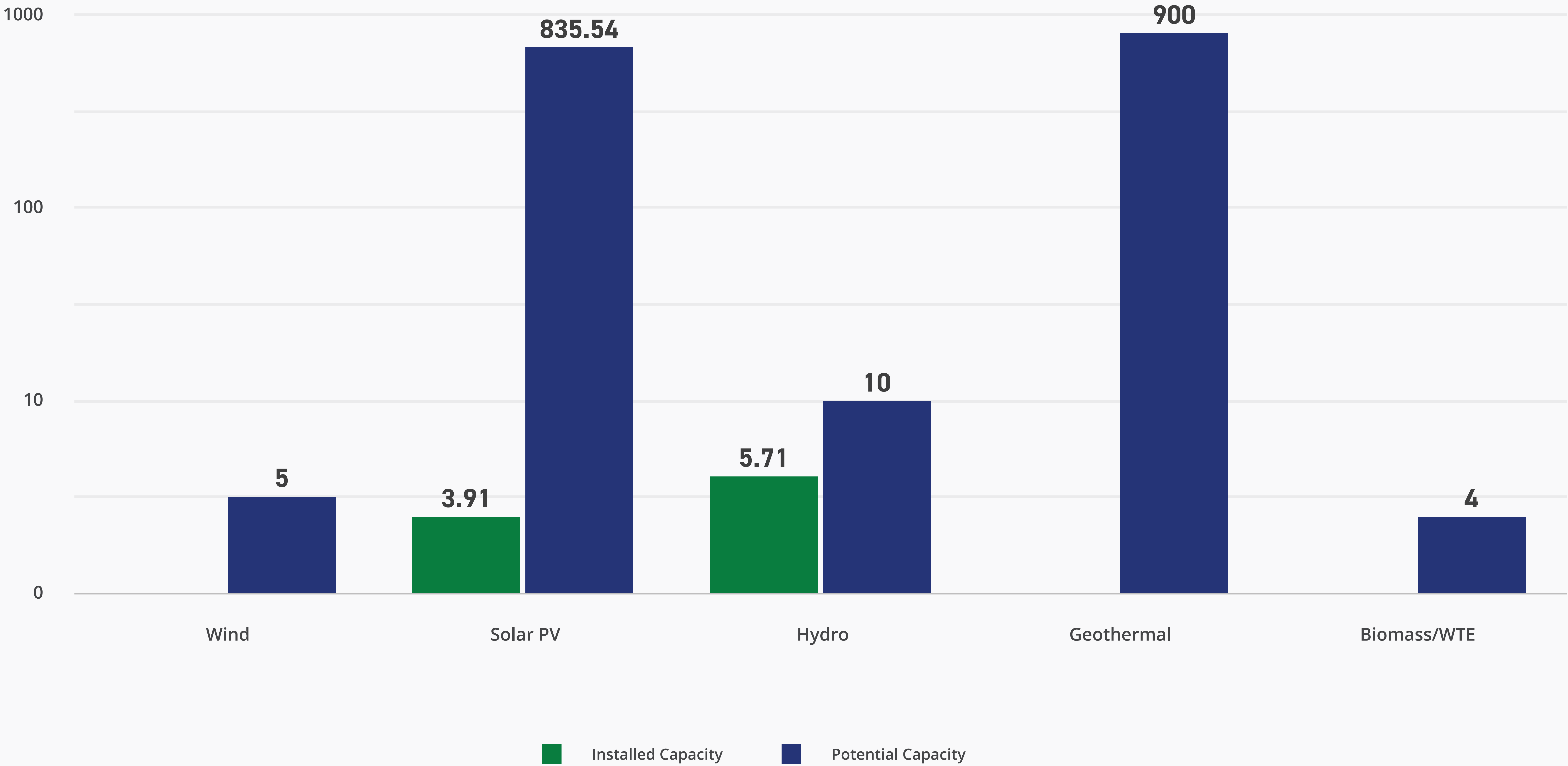
+ ENERGY CONSUMPTION



5. The energy data presented represents the islands of St. Vincent, Bequia, Union Island, Mayreau and Canouan



RENEWABLE ENERGY RESOURCES





ELECTRICITY TARIFFS ⁶ [22]

Category	Consumption	Tariff (US\$/kWh)
Domestic	0 kWh	\$1.85 ⁷
	50 kWh or less	0.15
	More than 50 kWh	0.18
Commercial	0 to 17 kWh	5.55 ⁸
	18 to 150,000 kWh	0.19
	More than 150,000, less than 200,000 kWh	0.18
	More than 200,000 kWh	0.18
Industrial	150,000 kWh or less	0.15
	More than 150,000, less than 200,000 kWh	0.14
	More than 200,000 kWh	0.14
Streetlights	All Units	0.21

6. The cost of fuel used for electricity generation is passed through to the customer as a fuel surcharge per kWh. There is no fuel surcharge on streetlighting. VAT on energy is 16% after the first 150 kWh for domestic customers and for all units in commercial, industrial and streetlighting.

7. Rate per month

8. Rate per month



PROJECTS IN THE PIPELINE



+ PROGRAMMES

Donor Funding and Technical Assistance Landscape	Donor Organization & Banks	Technical Assistance Providers	Funding Awards (US\$)	Year
Bequia Microgrid Project [7]	Abu Dhabi Fund for Development (ADFD)	ADFD	\$10 Million	2021 - 2023
Caribbean Energy Resilience Initiative [7]	World Bank	VINLEC	\$500,000	2020 - Present
GEOBUILD Project [7]	OECS/Caribbean Development Bank (CDB)	OECS	\$3 Million ⁹	2022 - 2025

+ ENERGY EFFICIENCY PROJECTS

Donor Funding and Technical Assistance Landscape	Donor Organization & Banks	Technical Assistance Providers	Funding Awards (US\$)	Year
Sustainable Energy for the Eastern Caribbean (SEEC) - Energy Efficiency Solar PV project [7]	CDB- Managing the fund, EUCIF-Grant, Department for International Development (DFID)-Grant, EIB-Loan, OCR-Loan	VINLEC	\$5 Million	2018 - 2023

The Sustainable Energy for the Eastern Caribbean (SEEC) consists of

- i. Improvement of air conditioning system efficiency within the three selected public buildings.
- ii. Improvement of lighting system which will include the replacement of fluorescent tubes and incandescent and high-pressure sodium bulbs and fittings with LED lamps and fixtures and the installation of time and occupancy-activated switches in strategic intermittently occupied areas;
- iii. Installation of estimated 150 kWAC of building-integrated solar PV energy generating systems. This will include either, the expansion and tie-in to existing solar PV installations, or the supply, installation and commissioning of new PV sets.

9. The GEOBUILD Project is an OECS project, the \$3 million represent the total amount allotted for the entirety of the project.



PROJECTS IN THE PIPELINE



RENEWABLE ENERGY PROJECTS

Renewable Energy Source	Resource and Projects Capacity	Development Partner	Total Estimated Cost (US\$)	Funding Source	Ownership (PPA, utility owned, community-owned or public)
Solar Photo-Voltaic [7]	6.2kW			Government of SVG	Public
	30kW	Caribbean Community Climate Change Centre		UNEP/GEF	Public
	40kW	Caribbean Community Climate Change Centre		UNEP/GEF	Public
	1.2MW	ADFD	\$12 Million	ADFD	Public
Geothermal [7]	10MW	Eavor Technologies/Government of St. Vincent and the Grenadines	\$10 Million	Government of St. Vincent and the Grenadines.	Public Private Agreement



TERTIARY PROGRAMMES OFFERED



Name of Education Programme Provider	Vocational Certificate	Associate Degree	Programme Link
St. Vincent and the Grenadines Community College		Electrical Engineering Technology ¹⁰	https://svgcc.vc/department-of-engineering/#Electrical
		Green Engineering (Caribbean Advance Proficiency Examination)	https://svgcc.vc/cape/
		Environmental Science (Caribbean Advance Proficiency Examination)	
Sector Skills Development Agency	Electrical Installations - CVQ Level 1 ¹¹		https://www.ssdasvg.org/index.php/en/programs

10. Includes the course Renewable Energy Technology.

11. Offered at the Kingstown, Georgetown, Capden, and Barrouallie Technical Institutes.



TRANSPORTATION SECTOR



No data was available for the transportation sector for 2022.



CLIMATE CHANGE FRAMEWORK



+

SUMMARY OF ST. VINCENT AND THE GRENADINES' GHG EMISSIONS AND REMOVALS (GG) FOR 2004 [24]

Climate Change Policy	National Climate Change Policy of Saint Vincent and the Grenadines (2019) [8]
National Determined Contributions 6:	An unconditional, economy-wide reduction in greenhouse gas (GHG) emissions of 22% compared to its business as usual (BAU) scenario by 2025. [9]
Emissions Reduction Target:	
Priority Sectors for NDC	<ol style="list-style-type: none"> 1. Energy (including domestic transport) 2. Industrial processes and product use 3. Agriculture 4. Land use, land use change and forestry 5. Waste
National Communications (NC) to the UNFCCC:	Initial National Communication on Climate Change St. Vincent and the Grenadines (2000) [23]
	Second National Communication on Climate Change Saint Vincent and the Grenadines (2015) [24]

Categories	Emissions (Gg)	Removals	Gg					
	CO ₂	CO ₂	CH ₄	N ₂ O	NO ₂	CO	NMVOCS	SO ₂
Energy	217.377		0.04	0.002	1.346	7.903	1.41	0.456
Industrial Processes	NO		NO	NO	NO	NO	3.812	NO
Solvent and Other Product Use				0.005			0.965	
Agriculture			0.243	0.179	0			
Land-Use Change & Forestry	0	-34.731	0.022	0	0.005	0.188		
Waste	0.037		2.896	0.007	0	0	0	0
International Bunkers - Aviation	0.723		0	0	0.003	0.001	0.001	0

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